A Note about ſome unuſual Diamonds.

THere came to our hands, ſome while ſince, a Repreſentation of a conſiderable number of excellent Diamonds, ſold by one Monſieur *Tavernier* to his King, after his laſt return from the *Eaſt-Indies*, whether he had made ſix Voyages by Land. Amongſt theſe Diamonds there are deſcribed three of a very unuſal colour; one weighing 112 $\frac{1}{16}$ *Carats*, of a very fine Violet-colour, and two of a Roſe-pale colour all three of an Adamantin hardneſs, and upon that account eſteemed *Diamonds*.

A certain Phænomenon, ſeen by Monſieur Havelius, *Feb.* 5. 1674. St. No. *not far from* Marienburg *in* Borouſſia *about the Sun a little before his ſetting and the Moon's conjunction, and the Sun's Eclipſe, (which yet was not ſeen by him.)*

I Saw at that time (*ſaith the Obſerver*) the Sun, in a sky every where ſerene enough, being yet ſome degrees above the Horizon, and ſhining very bright, yet lancing out very long and reddiſh rays, 40 or 50 degrees toward the Zenith (as appears *Fig.* 3.) Under the Sun, towards the Horizon, there hung a ſomewhat dilute ſmall Cloud, beneath which there appear'd a Mock-Sun, of the ſame bigneſs (to ſenſe) with the true Sun, and under the ſame Vertical, of a ſomewhat red colour. Soon after, the true Sun more and more deſcending to the Horizon, towards the ſaid Cloud (as may be ſeen *Fig.* 4.) the ſpurious Sun beneath it grew clearer and clearer, ſo as that the reddiſh colour in that apparent Solar disk vaniſh'd, and put on the genuine Solar light, and that the more, the leſs the genuine disk of the Sun was diſtant from the falſe Sun: Till at length the upper true Sun paſſed into the lower counterfeit one, and ſo remained alone; as appears *Fig.* 5.

Which Appearance being unuſual, and having never been ſeen by me, I took the freedom of imparting it unto you, eſpecially ſince here the Mock-Sun was not found at the ſide of the true Sun, as 'tis wont to be in all *Parhelia's* ſeen by me, but perpendicularly under it; not to mention the Colour, ſo different from

from that which is uſual in Mock-Suns; nor the great length of the Tayl, caſt up by the genuine Sun, and of a far more vivid and ſplendid light, than *Parhelia's* uſe to exhibit. Upon this appearance there ſoon follow'd here an exceedingly intenſe and bitter Froſt, whereby the whole *Sinus Puzenſis* was frozen up from this Town of *Dantzick*, as far as *Hela* in the *Baltick* Seã, which laſted unto the 25*th* of *March*; and the Bay was frozen ſo hard, that with great ſafety people run out into it with Sleds and Horſes, for ſeveral of our Miles. Whether the recited Phænomenon have had any influence for this extream Cold, I know not, but leave it for Aſtrologers to examine. Whether the like Appearance have ever been obſerv'd in *England*, I ſhould be glad to be informed of.

An Extract of Monſieur *Hevelius's* Letter, lately written to the Publiſher, concerning the famous *Kepler's* Manuſcripts; together with ſome conſiderations of his, about the uſe of *Teleſcopic Sights* in *Aſtronomical* Obſervations: Delivered in the ſame language, wherein 'twas written.

——EX *tuis* 16. Septemb. *datis intellexi, Te pleniorem informationem de* Kepleri *Manuſcriptis deſiderare. Jam ante hac, ni fallor, ad Vos perſcripſi, me omnia* Kepleri *MSS. ab haeredibus certo pretio obtinuiſſe, tum opera jam edita, tum quædam hactenus inedita; inter cætera, ipſa Epiſtolarum omnium (quarum magnus numerus) ad Clariſs. Viros ſcriptarum Autegrapha, cum plurimorum illius temporis Illuſtrium Virorum reſponſionibus. Inter MSS. illa inveniuntur ſane quæ lucem merentur, non ſolum plurimæ Epiſtolæ, ſed & Opera quædam, inter quæ eminet ejus* Hipparchus, *quanquam non ſit, ut par eſt digeſtus; qui tamen poſſet, a quopiam harum rerum perito & otio abundante, facile in ordinem redigi & abſolvi. Poſſideo itidem ſcripta ejus Chronologica. At* Kepleri *vitam ſtudio conſcriptam non invenio; interim plurima notata digniſſima, vitam ejus ſpectantia, paſſim notavi, ex quibus Vita ejus poſſet haud obſcure depingi. Quæ vero in ſpecie ex ſcriptis ejus penes me habeo, Catalogus hicce* * *indicabit. Cæterum percipio, Veſtrates non omnes mihi aſtipulari in iſto* Dioptrarum *negotio, de quibus in* Machinæ meæ Cœleſtis Organographia *tractavi. Verum, etiamſi Cl.* Hookius, *& Cl.* Flamſtedius †, *aliique, plane aliter ſentiant, experientia tamen quotidiana me edocuit, atque etiamnum docet, rem longe aliter ſe habere in Magnis illis Organis,* Quadrantibus *ſcilicet,* Sextan-

* Vide infra.

† Vid. N°. 96. *pag* 6000. ubi *Flamſtedius* dubitat, an multum emendatiores locos in Fixarum reſtitutione habituri ſimus ab illo, qui nonniſi pinnaciditis vitrorum caſſis utitur *Huc enim ex parte reſpicit hujus Epiſtolæ Auctor.*

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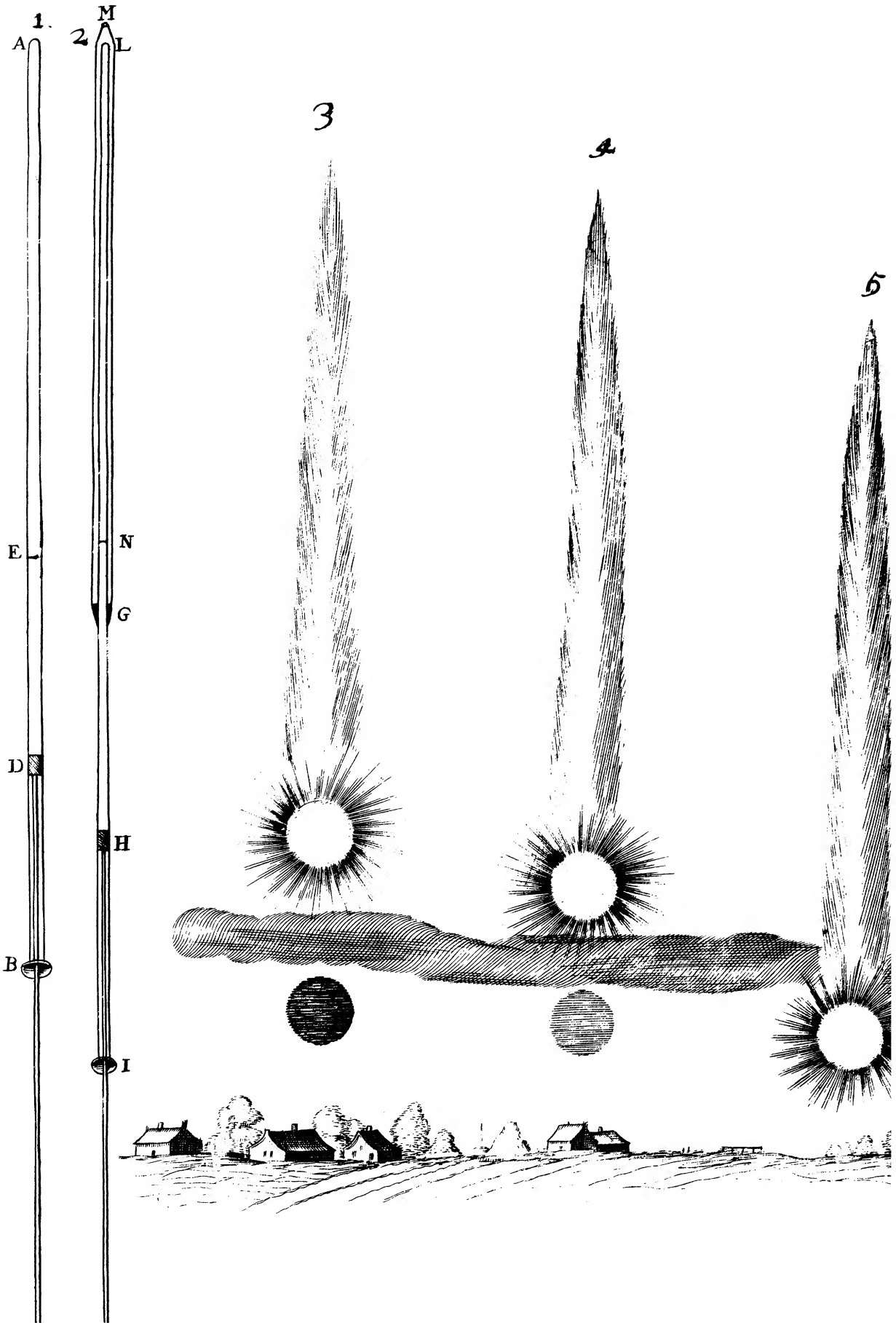
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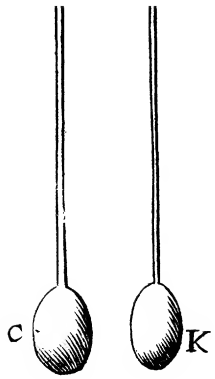

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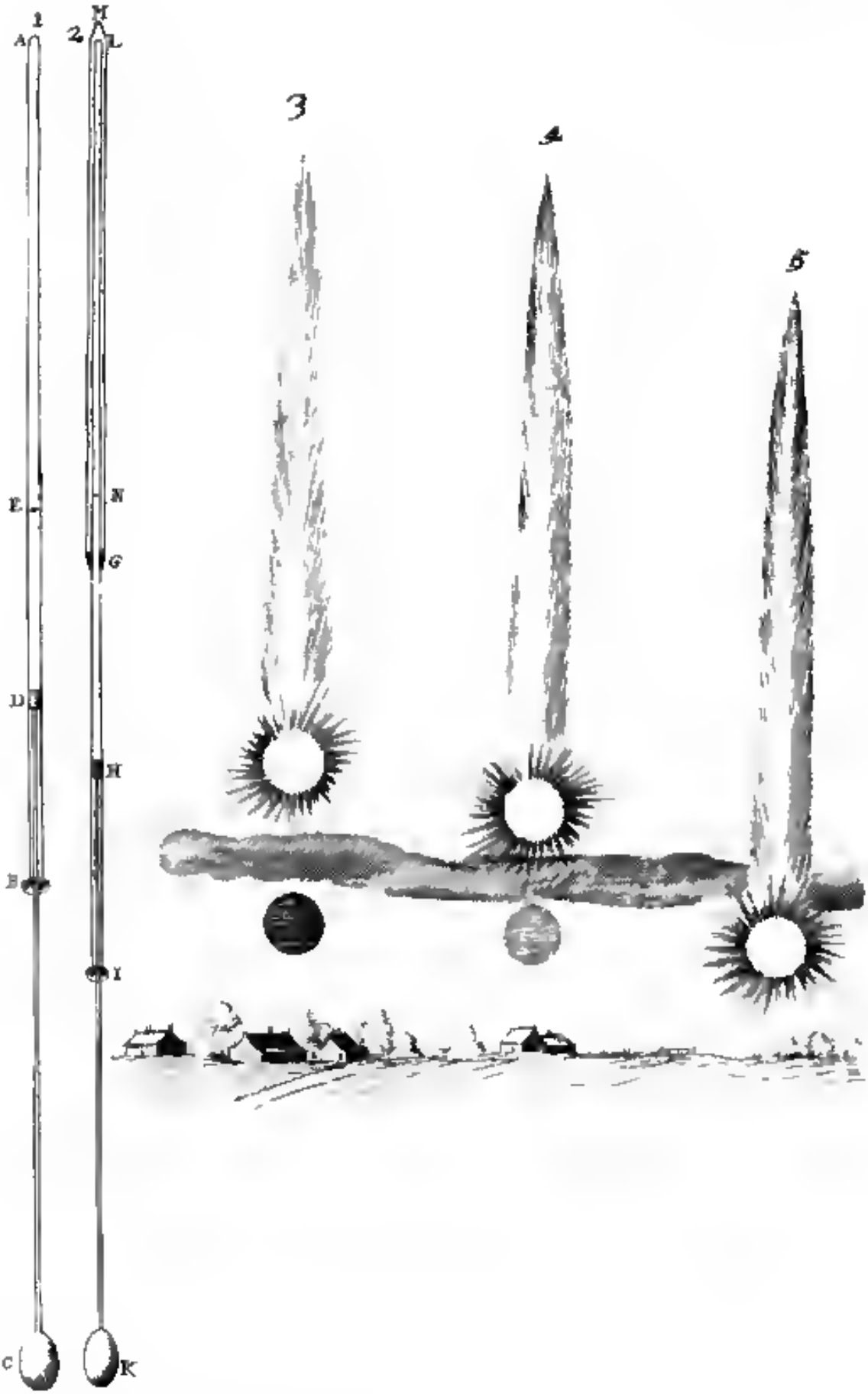
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